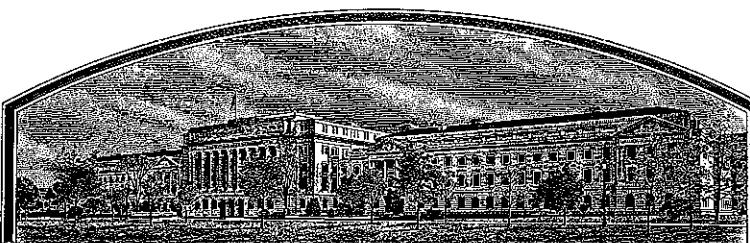


No.

9900307



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Progeny Advanced Genetics, Inc.

WHEREAS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF Viable BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SPLITTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Grand Max'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this nineteenth day of
September, in the year two thousand and five.

Attest:



Commissioner

Plant Variety Protection Office
Agricultural Marketing Service



Michael L. Johnson
Secretary of Agriculture



Exhibit A Origin and Breeding History

Grand Max is an iceberg lettuce variety developed from a hand pollinated cross of Raider and Tres Equis made in 1993 in the San Joaquin Valley. The F1 seed harvested was designated 55X41. The two parent varieties were selected for their compatibility. Raider, selected for its heat tolerances, and Tres Equis for its larger head and frame size. The cross was made to produce a tip burn tolerant, improved heading iceberg lettuce for the fall plantings in the lettuce production regions of Huron California and Yuma Arizona.

Approximately 40 plants of the F1 seed 55X41 were planted in the San Joaquin Valley research production field for increase in 1994. The plants were rogued, eliminating the self-pollinating plants. The F2 seed was harvested in August of 1994.

The F2 seed was designated as 94140B and plants from the F2 seed were evaluated in research trials in 1994. Individual F2 plants were selected for improved head and frame size, heavier leaf texture, slow bolting, and tolerance to tip burn. Selected plants were grown to seed in our San Martin green house facility where the F3 seed was harvested. A small quantity of the seed from the individual plants were trialed in Yuma in 1995 and one F3 line was identified as demonstrating the desired traits of improved head and frame size, improved leaf texture, slower bolting, and tolerance to tip burn. This F3 line was identified as PX 634 B.

The F3 seed designated as PX 634 B was planted in our research production field in 1996 where it was evaluated and rogued to remove all early bolting and small plants. The remaining plants from each line were harvested to produce F4 seed in August of 1996. Seed from these lines were immediately cleaned, packaged and trialed in Yuma during the 1996 production year. The F4 seed of PX 634B as evaluated in repeated research trials was noted as uniform and stable, and stood out as demonstrating the desired traits. The traits that distinguished this particular line, were its improved head and frame size, its slow bolting, its improved leaf texture, and its tolerance to tip burn.

Remnant F4 breeder seed for the variety PX 634 B was increased in the 1997 San Joaquin Valley research production field. The variety was selectively rogued, removing all small and early maturing plants. The F5 increase of PX 634 B was harvested in the fall. The bulk of the F5 seed was transferred to our commercial inventory and named Grand Max in the spring of 1998. Grand Max was first sold on June 5, 1998. At no point prior had harvested material from the variety been sold or offered for sale. Fields of the F5 seed were evaluated in the lettuce production regions of Huron and Yuma where the variety



was noted as uniform and stable, with out variants. The variety Grand Max has been uniform and stable for 2 generations.

Additional increases of the variety have been made in 2001 and 2002. Seed from all production years has been evaluated as uniform and stable with no variants other than those within commercially acceptable level.

99D0307



Exhibit A Amendment:

As evaluated in commercial trials and seed production fields, the variety Grand Max has been uniform and stable with no observed variants for 2 generations.



Exhibit B Revision
Statement of Distinctness

Grand Max is a strong heading tip burn tolerant iceberg lettuce variety developed for the fall plantings of the Huron California and Yuma Arizona lettuce production regions. This variety is extremely uniform and large heading and framed providing an excellent option for growers that plant the commercial variety Raider. Grand Max being 1 to 2 days later maturing than Raider, allows growers to split plantings between the 2 varieties and increase their harvest options.

Grand Max is most similar to the commercial variety Raider. Grand Max is distinguished from Raider as it consistently demonstrates larger size as indicated by 4 quantitative traits. In repeated trials, Grand Max has proven to have a larger head diameter, a longer head length, a heavier head weight, and a larger frame diameter. This data is supported statistically, at a minimum 95% confidence level in 4 repeated trials.

Grand Max is larger heading than Raider, as indicated by the 4 heading measurements to follow.

1. Grand Max has a larger head diameter. This measurement is made perpendicular to the core at the widest part of the sliced head. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 96%.
2. Grand Max has a longer head length. This measurement is made vertically from the base of the core to the top of the sliced head. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 96%.
3. Grand Max has a larger frame diameter. This measurement is made horizontally across the top of the growing lettuce plant at widest point of leaf margins. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 97%.
4. Grand Max produces a heavier head than Raider. This weight is representative of a harvested head of lettuce trimmed to market specs. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 97%.

In addition to the above mentioned distinctions, further distinctness is evident by observation of the 4 trials comparing Grand Max and Raider.

Grand Max is distinct from the variety Raider in color. In the 4 trials evaluated Grand Max had a color reading of 5GY 5/6 and Raider a reading of 5GY 6/6 when using the Munsell Book of Color for Plant Tissue.

**Exhibit B Addendum:**

Additional differences of the varieties Grand Max and Raider:

1. Shape of the 4th leaf:

Grand Max: Elongated
Raider: Oval

2. The Butt Shape:

Grand Max: Rounded
Raider: Flat

3. Bolter Leaf Shape:

Grand Max: Dentate
Raider: Entire



Grand Max is typically 1 to 2 days later maturing than Raider.

In addition, observation of the leaf margin distinguishes the varieties as well. Where as the Leaf Margin of Raider is somewhat undulating, the leaf margin of Grand Max is much more jagged.

Grand Max also resembles its male parent Tres Equis. Grand Max is distinguished from Tres Equis as it consistently demonstrates larger size as indicated by 4 quantitative traits. In repeated trials, Grand Max has proven to have a larger head diameter, a longer head length, a heavier head weight, and a larger frame diameter. This data is supported statistically, at a minimum 95% confidence level in 4 repeated trials. Grand Max is also earlier maturing and lighter in color than Tres Equis.

Grand Max is larger heading than Tres Equis, as indicated by the 4 heading measurements to follow.

1. Grand Max has a larger head diameter. This measurement is made perpendicular to the core at the widest part of the sliced head. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 95%.
2. Grand Max has a longer head length. This measurement is made vertically from the base of the core to the top of the sliced head. This data is statistically significant in 3 of the 4 repeated trials, with the following confidence levels: 99.4%, 80.2%, 99.8%, 99.9%. By pooling the data we see that over all this trait is a statistically significant difference at a 98.1% confidence level.
3. Grand Max has a larger frame diameter. This measurement is made horizontally across the top of the growing lettuce plant at widest point of leaf margins. This data is statistically significant in 4 repeated trials, with a minimum confidence level of 99.9%.
4. Grand Max produces a heavier head than Tres Equis . This weight is representative of a harvested head of lettuce trimmed to market specs. This data is statistically significant in 3 of the 4 repeated trials, with the following confidence levels: 99.1%, 99.9%, 91.6%, 99.9%. By pooling the data we see that over all, this trait is a statistically significant difference at a 99.8% confidence level.

In addition to the above mentioned distinctions, further distinctness is evident by observation of the 4 trials comparing Grand Max and Tres Equis.

Grand Max is distinct from the variety Tres Equis in color. In the 4 trials evaluated Grand Max had a color reading of 5GY5/6 and Tres Equis a reading of 5GY 4/6 when using the Munsell Book of Color for Plant Tissue.

9900307

Trial map #:	DD99016	Wet Date:	9/22/1999	Date eval'd:	12/5/1999	Location: Yuma Valley Ranch/lot	Commercial variety: Fortuna	Color: Salyer	Maturity Date: 12/6/1999	Grand Max 5E5/16	Tres Equis 5E4/16				
						Ranch/lot Hopper/2									
Sample #	Core length (cm)	Core diam. (cm)	Head diam. (cm)	Head length (cm)	Avg Head Diameter (cm)	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis	Head wt. (g)		
	Grand Max	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis	Grand Max	Tres Equis			
1	3.7	3.5	3.4	3.3	16.3	15.1	15.2	13.2	15.8	14.2	4.3	4.0	50		
2	3.5	3.4	3.3	3.7	16.7	14.8	14.0	15.8	14.4	4.5	4.2	50	47		
3	3.2	5.1	3.6	3.4	15.6	15.0	14.1	15.3	14.7	4.8	2.9	4.7	45		
4	3.5	4.0	3.3	3.5	15.8	15.6	15.6	15.7	15.4	4.5	3.8	4.9	50		
5	3.6	5.3	3.5	3.6	17.3	16.0	15.2	14.3	16.3	4.5	3.8	52	50		
6	3.2	5.3	3.4	3.1	18.6	16.5	15.5	16.1	15.9	5.0	3.0	50	47		
7	4.3	3.2	3.4	3.4	16.5	14.3	14.2	16.0	14.3	3.7	2.7	52	46		
8	3.0	3.5	3.4	3.5	15.1	17.2	15.3	15.0	15.2	5.1	5.0	49	43		
9	3.2	3.5	3.6	3.5	17.2	14.5	13.2	12.1	15.2	13.3	4.8	3.8	47	50	
10	3.8	3.4	3.5	3.5	17.1	15.2	16.3	15.0	16.7	15.1	4.4	4.3	48	48	
11	3.7	3.0	3.2	3.2	14.5	15.0	13.2	14.1	13.9	14.6	3.7	4.3	51	47	
12	4.5	3.2	3.6	3.2	16.9	14.8	15.6	13.2	16.3	14.0	3.6	4.7	544	544	
13	3.2	3.0	3.4	3.6	16.5	14.5	15.3	14.2	15.9	14.4	5.0	4.5	51	46	
14	2.8	2.8	3.5	3.0	15.0	13.5	13.2	12.3	14.1	12.9	5.0	4.3	52	50	
15	3.8	5.6	3.4	3.7	17.3	15.2	16.0	13.5	16.7	14.4	4.4	5.1	50	47	
16	4.5	3.5	3.1	3.2	16.0	13.8	15.2	12.0	15.6	12.9	3.5	2.3	48	46	
17	3.2	3.8	3.6	3.4	14.2	15.4	13.5	14.2	13.9	14.8	4.3	3.9	52	653	
18	3.6	4.0	3.4	3.5	15.1	16.2	14.0	15.1	14.6	15.7	4.0	3.9	50	47	
19	3.4	3.4	3.3	3.5	16.5	17.3	14.2	15.0	15.4	16.2	4.5	4.8	52	521	
20	3.6	3.7	3.2	3.1	16.8	16.3	13.8	12.3	15.3	14.3	4.3	3.9	50	46	
21	3.5	4.1	3.4	3.6	14.3	16.7	14.2	13.5	14.3	15.1	4.1	3.7	50	45	
22	3.2	4.0	3.1	3.5	15.2	15.2	13.7	14.0	14.5	14.6	4.5	3.7	53	47	
23	3.7	3.6	3.2	3.4	15.8	17.2	14.8	13.5	15.3	15.4	4.1	4.3	49	50	
24	3.8	3.8	3.6	3.7	16.8	16.3	15.4	13.0	16.1	14.7	4.2	3.9	51	47	
Average	3.6	3.8	3.4	3.4	16.1	15.5	14.7	13.8	15.4	14.7	4.4	3.9	50.1	46.8	
Stan dev	0.4301794	0.7666384	0.1558055	0.1999547	1.09722146	1.0335568	0.9546131	0.9973062	0.837914942	0.874849884	0.44797835	0.696130487	1.6235361	2.0359095	639.8
T test	1.57E-01		5.76E-01	4.71E-02	5.74E-03	5.23E-03			1.60E-02		1.49E-07		8.86E-03		90.445395
%Confidence Level	84.3342404	42.428912	95.28534	99.426496	99.47669974	98.39917383			99.999985		99.11139307				

PVP DATA: Trial map #: PD99017 Wet Date: 9/23/1999 Date eval'd: 12/7/1999 Location: Bard Ranch/Plot Kenley/11 Grower: Top Flavor/T&A

Comparison of Head Characteristics

Ranch/Plot

<p

990030

Trial map #:	RSLV00051	Location:	Tres Picos	Ranch/lot:	35-4-4	Date eval'd:	11/3/2000	Maturity:	11/1/2003	Color:	5gy/5y6
Wet Date:	8/28/2000	Grower:	T&A	Commercial Raider		Eval by:	nd/fac/dg			Grand Max	
			<th></th> <th></th> <th></th> <th></th> <th>Tres Equis</th> <td></td> <th></th> <td>11/5/2003 5ey/4y6</td>					Tres Equis			11/5/2003 5ey/4y6

990036

Trial map #:	YMM00025	Location:	Yuma Valley Ranch/Mot: Huber 5	Date evald:	12/6/2000	Maturity	Color
Wet Date:	9/20/2000	Grower:	Mission Rar Commercia Raider	Eval by:	dgjt	Grand Max	12/5/2000 5E516
						Tres Equis	12/9/2000 5E416

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
OBJECTIVE DESCRIPTION OF VARIETY
LETTUCE Lactuca sativa

EXHIBIT C

9900307

NAME OF APPLICANT (S)		FOR OFFICIAL USE ONLY	
PROGENY ADVANCED GENETICS, INC.		PVPO NUMBER	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		VARIETY NAME	
1536 B MOFFETT STREET SALINAS, CALIFORNIA 93905		Grand Max	
		EXPERIMENTAL DESIGNATION R44D 4/16/01	

Place numbers in the boxes for the characters which best describe this variety. Measured data should be the mean of an appropriate number (at least 10) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is:
SALINAS VALLEY, CALIFORNIA Color System Used:
MUNSELL COLOR SYSTEM

1. PLANT TYPE: (See list of suggested check varieties page 4.)

0 6

- 01-Cutting/Leaf
02-Butterhead
03-Bibb
04-Cos or Romaine
05=Great Lakes Group
06=Vanguard Group
07=Imperial Group
08=Eastern (Ithaca) Group

- 09=Stark
10=Latin
11=OTHER-

2. SEED:

COLOR

- 2 1=White (Silver Gray)
2=Black (Gray Brown)
3=Brown (Amber)

2

- LIGHT DORMANCY
1=Light Required
2=Light Not Required

HEAT DORMANCY

- 1 1=Susceptible
2=Not Susceptible

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

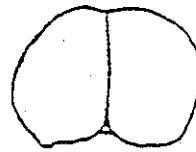
2

SHAPE OF COTYLEDONS:

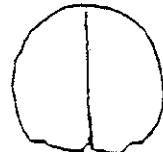
- 1=Broad 2=Intermediate 3=Spatulate

4

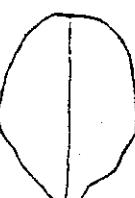
SHAPE OF FOURTH LEAF:



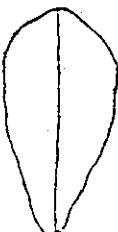
1



2



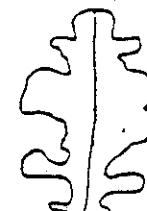
3



4



5



6

1 8

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

3

APICAL MARGIN:

- 1=Entire

- 4=Moderately Dentate

- 7=Lobed

3

BASAL MARGIN:

- 2=Crinate/Griawed

- 5=Coarsely Dentate

- 8=OTHER (specify)

- 3=Finely Dentate

- 6=Incised

1

UNDULATION:

- 1=Flat

- 2=Slight

- 3=Medium

- 4=Marked

3

GREEN COLOR:

- 1=Yellow Green

- 3=Medium Green

- 5=Blue Green

- 7=Gray Green

- 2=Light Green

- 4=Dark Green

- 6=Silver Green

ANTHOCYANIN:

1

DISTRIBUTION:

- 1=Absent

- 3=Spotted

- 5=OTHER (specify)

- 2=Margin Only

- 4=Throughout

0

CONCENTRATION:

- 1=Light

- 2=Moderate

- 3=Intense

1

ROLLING:

- 1=Absent

- 2=Present

1

CUPPING:

- 1=Uncupped

- 2=Slight

- 3=Markedly

1

REFLEXING:

- 1=None

- 2=Apical Margin

- 3=Lateral Margins

9900307

MATURE LEAVES (observe harvest-mature outer leaves):

NOTE: Provide color photo of harvest-mature leaves which accurately shows color and margin characteristics.

MARGIN:

<input type="checkbox"/> 2	INCISION DEPTH: <i>(deepest penetration of the margin)</i>	1=Absent/Shallow (Dark Green Boston) 2=Moderate (Vanguard) 3=Deep (Great Lakes 659)
<input type="checkbox"/> 4	INDENTATION: <i>(finest divisions of the margin)</i>	1=Entire (Dark Green Boston) 2=Shallowly Dentate (Great Lakes 659) 3=Deeply Dentate (Great Lakes 659) 4=Grenate (Vanguard) 5=OTHER <i>(specify)</i>
<input type="checkbox"/> 2	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston) 2=Moderate (Vanguard) 3=Strong (Great Lakes 659)
<input type="checkbox"/> 4	GREEN COLOR:	1=Very Light Green (Bibb) 2=Light Green (Minetto) 3=Medium Green (Great Lakes) 4=Dark Green (Vanguard) 5=Very Dark Green 6=OTHER
ANTHOCYANIN (grown at or below 10°C):		
<input type="checkbox"/> 1	DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston) 3=Spotted (Calif. Cream Butter) 4=Throughout (Prize Head) 5=OTHER <i>(specify)</i>
<input type="checkbox"/> 0	CONCENTRATION:	1=Light (Iceberg) 2=Moderate (Prize Head) 3=Intense (Ruby)
<input type="checkbox"/> 2	SIZE:	1=Small 2=Medium 3=Large
<input type="checkbox"/> 2	GLOSSINESS:	1=Dull (Vanguard) 2=Moderate (Salinas) 3=Glossy (Great Lakes)
<input type="checkbox"/> 3	BLISTERING:	1=Absent/Slight (Salinas) 2=Moderate (Vanguard) 3=Strong (Prize Head)
<input type="checkbox"/> 3	LEAF THICKNESS:	1=Thin 2=Intermediate 3=Thick
<input type="checkbox"/> 1	TRICHOMES:	1=Absent (smooth) 2=Present (spiny)

PLANT (at market stage. Choose a comparison variety appropriate for this type.):

<input type="checkbox"/> 49	SPREAD OF FRAME LEAVES: cm This Variety	<input type="checkbox"/> 46 cm RAIDER	<i>(specify comparison variety)</i>
<input type="checkbox"/> 16	HEAD DIAMETER (market trimmed with single cap leaf): cm This Variety	<input type="checkbox"/> 15 cm RAIDER	<i>(specify comparison variety)</i>
<input type="checkbox"/> 3	HEAD SHAPE: 1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
<input type="checkbox"/> 2	HEAD SIZE CLASS: 1=Small	2=Medium	3=Large
<input type="checkbox"/> 24	HEAD COUNT PER CARTON		
<input type="checkbox"/> 786	HEAD WEIGHT: g This Variety	<input type="checkbox"/> 706 g RAIDER	<i>(specify comparison variety)</i>
<input type="checkbox"/> 3	HEAD FIRMNESS: 1=Loose 2=Moderate	3=Firm 4=Very Firm	

BUTT (bottom of market-trimmed head):

<input type="checkbox"/> 3	SHAPE: 1=Slightly Concave	2=Flat	3=Arcuated
<input type="checkbox"/> 2	MIDRIB: 1=Flattened (Salinas)	2=Moderately Raised	3>Prominently Raised (Great Lakes 659)

CORE (stem of market-trimmed head):

<input type="checkbox"/> 36	mm Diameter at base of head	
<input type="checkbox"/> 44	Ratio of head diameter/core diameter	

<input type="checkbox"/> 37	Core height from base of head to apex: mm This Variety	<input type="checkbox"/> 39 mm RAIDER	<i>(specify comparison variety)</i>
-----------------------------	---	---------------------------------------	-------------------------------------

<input type="checkbox"/> 69	BOLTING (Give First Water Date <input type="checkbox"/> 5/6/98)	1: NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.
This Variety	<input type="checkbox"/> 72	RAIDER
<input type="checkbox"/> 3	BOLTING CLASS: 1=Very Slow 2=Slow	3=Medium 4=Rapid 5=Very Rapid

<input type="checkbox"/> 107	Height of mature seed stalk: cm This Variety	<input type="checkbox"/> 103 cm RAIDER	<i>(specify comparison variety)</i>
------------------------------	---	--	-------------------------------------

9960307

Spread of Bolter Plant (at widest point):

4 8 cm This Variety

5 0 cm

RAIDER

(specify comparison variety)

<input checked="" type="checkbox"/> 2	BOLTER LEAVES:	1=Straight	2=Curved
<input checked="" type="checkbox"/> 2	MARGIN:	1=Entire	2=Dentate
<input checked="" type="checkbox"/> 2	COLOR:	1=Light Green	2=Medium Green
			3=Dark Green
BOLTER HABIT:			
<input checked="" type="checkbox"/> 2	TERMINAL INFLORESCENCE:	1=Absent	2=Present
<input checked="" type="checkbox"/> 2	LATERAL SHOOTS: (above head)	1=Absent	2=Present
<input checked="" type="checkbox"/> 2	BASAL SIDE SHOOTS:	1=Absent	2=Present

9. MATURITY (earliness of harvest-mature head formation):

NOTE: Complete this section for at least one season.

SEASON	Applie. 1/ #of days	Check 1/ #of days	CHECK VARIETY 2/
Spring	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Summer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Fall	<input type="checkbox"/> 75	<input type="checkbox"/> 76	RAIDER
Winter	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Give planting date(s), and location(s):

Spring

Summer 6/20-7/20 SALINAS VALLEY, CALIFORNIAFall 8/20-9/05 HURON, CALIFORNIA. 9/12-9/27 YUMA, ARIZONA

Winter

1/ First water date to harvest.

2/ Fill in check variety name on the appropriate line.

10. ADAPTATION:

PRIMARY REGIONS OF ADAPTION (tested and proven adapted):

(0=Not tested

1=Not Adapted

2=Adapted)

 2 Southwest (Calif., Ariz. desert) 2 West Coast Northeast Northcentral Southeast OTHER

SEASON:

 Spring (area _____) 2 Fall (area HURON, CA. YUMA, AZ.) 2 Summer (area SALINAS VALLEY, CA.) Winter (area _____) 0 GREENHOUSE:

0=Not tested

1=Not Adapted

2=Adapted

 3 SOIL TYPE:

1=Mineral

2=Organic

3=Both

11. DISEASES AND STRESS REACTIONS (0=Not tested; 1=Susceptible; 2=Intermediate; 3=Resistant; 4=Highly resistant; 5=Tolerant) 9900307

VIRUS

- 1 Big Vein
- 1 Lettuce Mosaic
- 1 Cucumber Mosaic
- 0 Broad Bean Wilt
- 0 Turnip Mosaic
- 0 Beet Western Yellows
- 0 Lett. Infectious Yellows
- Other Virus _____

FUNGAL/BACTERIAL

- 1 Corky Root Rot (Pythium Root Rot)
- 0 Downy Mildew (Races _____)
- 0 Powdery Mildew
- 0 Sclerotinia Rot
- 0 Bacterial Soft Rot (Pseudomonas spp. & others)
- 0 Botrytis (Gray Mold)
- OTHER _____

INSECTS

- 0 Cabbage Looper
- 0 Root Aphids
- 0 Green Peach Aphid
- Other Insect _____

PHYSIOLOGICAL/STRESS

- 5 Tiduum
- 5 Heat
- 1 Drought
- 1 Cold
- 0 Salt
- 0 Brown Rib (Rib Discoloration, Rib Blight)
- OTHER _____

POST HARVEST

- 0 Pink Rib
- 0 Russet Spotting
- 0 Rusty Brown Discoloration

- 0 Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)
- 0 Brown Stain

12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

13. COMMENTS:

SUGGESTED CHECK VARIETIES

TYPE

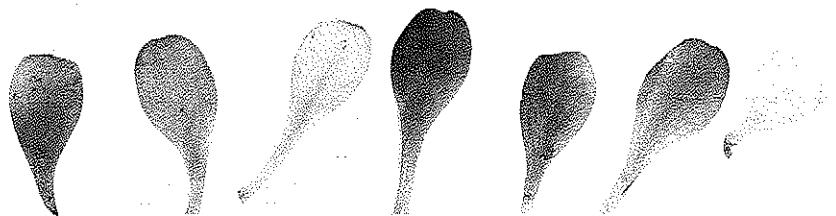
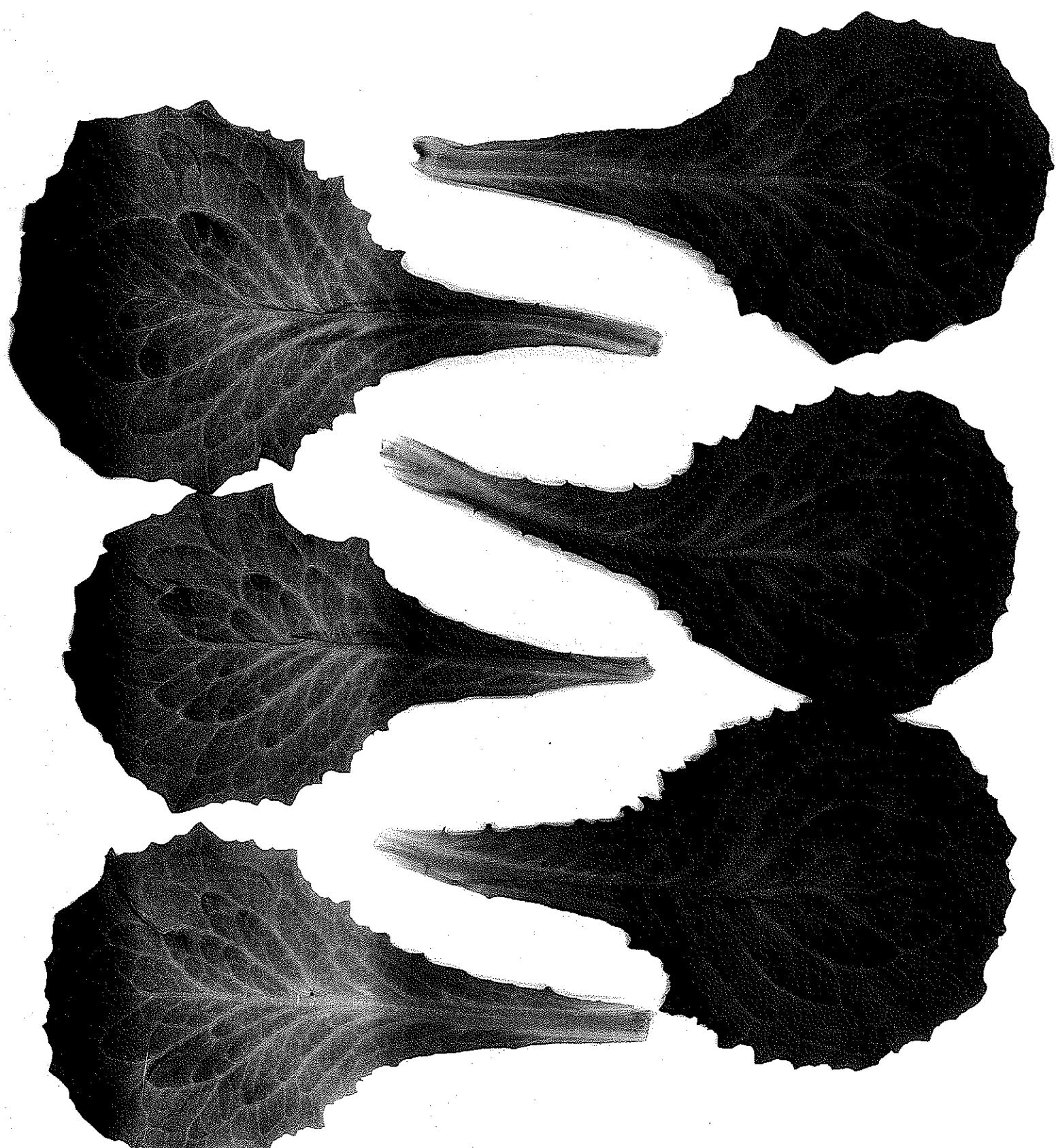
- 11 CUTTING/LEAF
- 21 BUTTERHEAD
- 31 BIBB
- 41 COS, OR ROMAINE
- 51 GREAT LAKES GROUP
- 61 VANGUARD GROUP
- 71 IMPERIAL GROUP
- 81 EASTERN GROUP
- 91 STEM
- 101 LATIN

CHECK VARIETY

- SALAD BOWL
- DARK GREEN BOSTON
- BIBB
- PARRIS ISLAND
- GREAT LAKES 559-700
- VANGUARD
- VIVA
- ITHACA
- CELTIQUE
- MATCHLESS

GRAND MAX

9900307



9900307





EXHIBIT D

Additional Description of the Variety

PX 634 B is a heavily savoyed iceberg type. It has a dark green color and is an exceptionally good header, with improved texture. This variety has a very appealing butt appearance due to its color and large core diameter.



Grand Max is typically 3 to 5 days earlier maturing than the variety Tres Equis.

Grand Max can be planted earlier in the planting slot than Tres Equis.

Grand Max differs from the variety Red Coach 82 by the following traits:

1. Adaptability:
 - a. Grand Max is adapted to more heat intense growing conditions. Specifically, Grand Max is planted in the Yuma lettuce production region between the dates of September 12 and September 27, and harvested between November 27 and December 15, respectively.
 - b. Red Coach 82, in contrast is planted from October 10 through October 22, in this same lettuce production region. The respective harvest dates are between December 28 and February 14.
 - c. Red Coach 82 is planted and harvested during a much cooler growing period.
 - d. Grand Max planted during this same time period would not produce a marketable head, as it would be extremely small, not meeting the size requirements.
 - e. Red Coach 82 planted between September 12 and September 27, would not produce a marketable product. The plants would rarely head, or be extremely puffy and light. Core elongation, bolting, and tip burn would also prevent Red Coach 82 from producing a marketable product during this planting period.
2. As a result of the differences in adaptability and climactical growing conditions the number of days to maturity also distinguish the varieties.
 - a. Grand Max averages 75 days from wet date to harvest.
 - b. Red Coach 82 averages between 83 and 114 days to harvest.

Grand Max differs from the variety Mystic GL by the following traits:

1. Type:
 - a. Mystic GL is classified as a Salinas Type Iceberg Lettuce
 - b. Grand Max is classified as a Vanguard Type Iceberg Lettuce
2. Adaptability:
 - a. Mystic GL is adapted to the Salinas Valley planting regions between the dates of February 1 and March 15. For April and May harvest.
 - b. Grand Max is planted in the Yuma lettuce production region between the dates of September 12 and September 27, and harvested between November 27 and December 15, respectively.
 - c. If Grand Max was to be planted in the planting period of February 1 to March 15 in Salinas, the heads would be extremely small and not marketable.



9900307

- d. If Mystic GL was planted in the Yuma lettuce production region between the dates of September 12 and September 27, the plants would be puffy and light and true head formation would not occur. Core elongation, bolting, and tip burn would also prevent Mystic GL from producing a marketable product.

Grand Max differs from the variety Hondo by the following traits:

- 1. Adaptability:
 - a. Grand Max has consistently performed during the planting period as described in the application, where as it has produced market quality iceberg lettuce.
 - b. Hondo, in contrast has recently been discontinued due to its inconsistent performance during this same planting period. Hondo has varied in size and maturity, and has problems with producing a marketable head due to its smaller and inconsistent size and problems with early bolting and tip burn.
- 2. Color:
 - a. Hondo has a color reading of 5gy4/8. This reading was recorded in 2 trials in 2000, with wet dates of 8/28/00 and 9/27/00 in Huron and Yuma respectively.
 - b. Grand Max has a color reading of 5gy 5/6, as measured in the same trials.
 - i. Color readings are measured using the Munsell Color Chart for Plant tissues.

Please see attached data tables:

Trial map #: PD99016
 Wet Date: 9/22/1999
 Date eval: 12/5/1999

PVP DATA:
 Comparison of Head Characteristics
 Location: Yuma Valley
 Ranch/lot: Hopper/2
 Grower: Salyer

Maturity Date:
 Color
 1 Grand Max 12/6/1999 5gy5/6
 2 Raider 12/7/1999 .5gy6/6

Commercial variety:
 Fortuna
 Ranch/lot: Hopper/2
 Grower: Salyer

Sample #	Core length (cm)	Core diam. (cm)	Head diam. (cm)	Head length (cm)	Avg Head Diameter (cm)	Avg Head Diam:Core Length	Frame diam (cm)	Head wt. (g)
	Grand Max	Raider	Grand Max	Raider	Grand Max	Raider	Grand Max	Raider
1	3.7	3.7	3.4	16.3	15.2	15.4	15.8	4.3
2	3.5	3.5	3.3	16.7	15.4	14.8	14.5	4.5
3	3.2	3.1	3.6	15.6	14.4	15.0	15.3	4.1
4	3.5	3.6	3.3	15.8	14.7	15.6	15.3	4.8
5	3.6	3.1	3.5	17.3	16.6	15.2	16.3	4.5
6	3.2	3.5	3.4	18.6	14.5	15.5	16.1	4.5
7	4.3	2.8	3.4	16.5	15.4	15.5	12.8	5.0
8	3.0	2.7	3.4	15.1	14.3	15.3	12.7	4.0
9	3.2	3.5	3.6	17.2	14.4	13.2	13.5	4.9
10	3.8	4.5	3.5	17.1	13.6	16.3	14.5	4.8
11	3.7	3.4	3.2	14.5	14.2	13.2	13.5	4.8
12	4.5	3.9	3.6	16.9	15.0	15.6	13.5	5.0
13	3.2	3.3	3.4	16.5	16.2	15.3	15.9	4.3
14	2.8	3.5	3.5	15.0	13.5	13.2	14.1	4.2
15	3.8	3.6	3.4	17.3	17.4	16.0	16.7	4.8
16	4.5	2.3	3.1	16.0	14.8	15.2	13.3	4.0
17	3.2	4.1	3.6	14.2	14.3	13.5	14.2	4.3
18	3.6	4.2	3.4	15.1	15.1	14.0	13.5	4.6
19	3.4	3.8	3.3	16.5	14.2	14.2	13.8	4.0
20	3.6	3.6	3.2	16.8	14.2	13.8	14.2	4.5
21	3.5	3.4	3.4	16.0	14.3	16.0	14.2	4.3
22	3.2	3.6	3.1	15.2	13.8	13.7	14.5	4.2
23	3.7	3.8	3.2	15.8	14.5	14.8	15.3	4.5
24	3.8	4.0	3.6	16.8	13.9	15.4	13.2	4.6
Average	3.6	3.5	3.4	16.1	14.5	14.7	13.9	4.4
Stan dev	0.4301794	0.4872096	0.1558055	1.0903467	1.09722146	0.9546131	0.7168267	0.447978835
T test	7.55E-01	2.51E-01	1.19E-03	2.07E-03	1.06E-04	99.8810667	99.793477	2.86E-02
%Confidence Level	24.510769	74.86768	99.8810667	99.793477	99.98941928	97.14161864	96.729678	3.37E-02
								96.6279035

9900307

9900307

Sample #	PVP DATA:			Commercial variety:			Maturity Date:		
	Comparison of Head Characteristics			Annie			1 Grand Max 12/6/1999 5EY 4/6		
	Location: Bard Ranch/lot Kenley/11			Grower: Top Flavor/T&A			2 Grand Max 12/7/1999 5EY 6/6		
	Core length (cm)	Core diam. (cm)	Head diam. (cm)	Head length (cm)	Avg Head Diameter (cm)	Avg Head Diam:Core Length	Frame diam (cm)	Head wt. (g)	
	Grand Max	Raider	Grand Max	Raider	Grand Max	Raider	Grand Max	Raider	Grand Max
1	4.5	5.0	3.5	3.6	14.6	14.0	13.2	13.9	3.1
2	3.5	3.7	3.4	3.5	15.5	13.5	12.5	14.4	4.1
3	5.2	3.5	3.8	3.5	14.3	15.0	13.6	13.1	2.7
4	3.4	5.0	3.6	3.7	15.2	14.4	13.0	14.0	4.1
5	3.0	5.5	3.5	3.6	15.2	15.5	12.6	13.1	2.7
6	4.5	4.3	3.6	3.3	16.5	14.8	14.5	14.0	4.1
7	3.0	3.6	3.7	3.7	16.1	14.3	12.8	12.2	4.1
8	2.6	4.5	3.8	3.6	13.2	14.5	12.1	12.9	4.2
9	3.6	4.0	3.5	3.5	15.2	14.3	12.5	15.5	4.2
10	4.3	3.9	3.6	3.8	16.2	14.0	14.3	13.0	4.3
11	3.8	5.2	3.4	3.4	15.0	14.5	14.2	14.3	3.5
12	2.8	6.2	3.5	3.6	13.8	14.0	12.2	14.0	3.5
13	3.5	5.0	3.8	3.5	15.2	14.0	14.3	13.8	3.5
14	4.9	3.5	4.0	3.7	14.9	15.0	14.6	13.2	3.0
15	4.3	4.3	3.3	3.2	16.2	15.1	15.1	15.0	3.5
16	4.3	5.6	3.6	3.8	15.2	15.1	14.5	12.8	3.6
17	3.0	7.2	3.4	4.1	13.5	15.0	12.8	13.2	3.5
18	3.1	4.5	3.7	3.9	16.2	15.3	15.1	14.0	4.1
19	3.3	6.8	3.0	3.3	15.6	14.9	15.0	13.2	4.1
20	3.6	3.6	3.8	3.5	15.2	15.3	15.3	14.1	4.1
21	4.0	4.2	3.6	3.7	16.2	15.2	14.3	14.0	4.1
22	3.8	6.5	3.6	3.5	14.7	14.8	14.0	12.4	3.6
23	3.6	3.6	3.4	3.6	15.0	14.5	14.3	13.1	3.6
24	3.5	4.2	3.9	3.4	13.5	15.1	12.3	13.6	3.6
Average	3.7	4.7	3.6	3.6	15.1	14.6	14.6	13.3	14.5
Stan dev	0.6726408	1.0798215	0.2115762	0.215647	0.92832345	0.5080333	0.9954971	0.6164267	0.873955688
T test	2.56E-04	1.00E+00	1.00E+00	3.93E-02	4.37E-02	2.04E-02	7.84E-06	1.11E-02	2.63E-02
%Confidence Level	99.974431	0	96.0695203	95.634905	97.96264972	99.99921563	98.887461	97.3738445	97.3738445

9900307

Trial map #: RSJV00051 Location: Tres Picos Ranch/lot: 35-4-4 Date evald: 11/3/2000
 Wet Date: 8/28/2000 Grower: T&A Commercial Raider Eval by: nd/advd

Maturity 11/1/2003 5g5/6
 Grand Max 11/3/2003 5g5/6
 Raider

Sample #	Core length (cm)	Core diam. (cm)	Head diam. (cm)	Head length (cm)	Avg Head Diameter (cm)	Avg Head Diam:Core Length	Frame diam (cm)	Head wt. (g)
	Raider	Grandmax	Raider	Grandmax	Raider	Grandmax	Raider	Grandmax
1	44.0	65.0	38.0	37.0	165.0	160.0	174.0	152.0
2	65.0	72.0	32.0	40.0	160.0	174.0	139.0	149.5
3	47.0	52.0	39.0	40.0	155.0	175.0	161.0	160.0
4	57.0	61.0	35.0	39.0	184.0	164.0	166.0	175.0
5	42.0	52.0	35.0	42.0	172.0	181.0	164.0	155.0
6	42.0	44.0	36.0	40.0	155.0	174.0	154.0	170.0
7	42.0	41.0	37.0	42.0	174.0	160.0	160.0	167.0
8	47.0	48.0	35.0	40.0	161.0	172.0	169.0	169.0
9	59.0	59.0	40.0	37.0	161.0	160.0	162.0	158.0
10	33.0	42.0	32.0	39.0	135.0	160.0	141.0	169.0
11	42.0	49.0	39.0	41.0	156.0	174.0	151.0	172.0
12	52.0	44.0	40.0	40.0	161.0	162.0	149.0	165.0
13	40.0	50.0	36.0	36.0	155.0	172.0	173.0	176.0
14	47.0	45.0	37.0	35.0	160.0	174.0	157.0	160.0
15	45.0	40.0	34.0	37.0	161.0	152.0	160.0	170.0
16	40.0	50.0	41.0	39.0	162.0	155.0	149.0	159.0
17	42.0	54.0	39.0	39.0	156.0	194.0	155.0	161.0
18	33.0	32.0	37.0	38.0	174.0	164.0	146.0	142.0
19	46.0	35.0	38.0	39.0	162.0	145.0	155.0	152.0
20	35.0	42.0	40.0	40.0	172.0	169.0	160.0	155.0
21	50.0	36.0	40.0	39.0	169.0	165.0	155.0	155.0
22	66.0	39.0	35.0	39.0	150.0	176.0	156.0	162.0
23	45.0	56.0	40.0	41.0	146.0	164.0	157.0	165.0
24	47.0	62.0	39.0	40.0	170.0	187.0	161.0	164.0
Average	46.2	48.7	37.3	39.1	161.5	168.0	155.6	163.8
Stan dev	8.6560693	10.088647	2.5917931	1.7523276	10.3167234	11.031493	9.0688789	9.0966894
T test	3.54E-01	5.18E-03	3.93E-02	3.31E-03	1.56E-03	1.56E-03	8.28E-01	2.92E-13
%Confidence Level	64.618982	99.4824	96.0727728	99.668547	99.8436133	17.21478654	100	98.2903553

27

9906307

Trial map #: YM00025 **Location:** Yuma Valley Ranch/lot: Huber 5 **Date eval'd:** 12/6/2000
Wet Date: 9/20/2000 **Grower:** Mission Ran Commceria Raider **Eval by:** dgjt

9900307

Pooled Data from 4 Trials

Sample	Head length (cm)		Head wt. (g)	
#	Grand Max	Tres Equis	Grand Max	Tres Equis
1	15.2	13.2	910	708
2	14.8	14.0	944	507
3	15.0	14.1	933	727
4	15.6	15.1	593	570
5	15.2	14.3	667	428
6	13.5	15.2	607	576
7	15.5	14.2	695	640
8	15.3	15.0	794	633
9	13.2	12.1	546	702
10	16.3	15.0	793	748
11	13.2	14.1	544	746
12	15.6	13.2	607	653
13	15.3	14.2	857	780
14	13.2	12.3	820	562
15	16.0	13.5	661	636
16	15.2	12.0	1005	658
17	13.5	14.2	667	743
18	14.0	15.1	722	699
19	14.2	15.0	852	521
20	13.8	12.3	634	692
21	14.2	13.5	788	544
22	13.7	14.0	752	555
23	14.8	13.5	639	701
24	15.4	13.0	529	625
25	13.2	14.0	709	516
26	13.3	13.2	764	652
27	13.6	13.7	614	647
28	13.0	14.2	718	623
29	12.6	14.6	657	617
30	14.5	13.5	689	709
31	12.8	12.8	873	724
32	12.1	14.8	752	686
33	15.5	14.1	893	723
34	14.3	14.0	681	540
35	14.2	13.8	694	523
36	12.2	14.2	824	827
37	14.3	13.2	765	620
38	14.6	11.2	768	577
39	15.0	11.8	830	697
40	14.5	14.1	681	583
41	12.8	12.5	711	560
42	15.1	13.0	680	638
43	15.0	14.1	624	763
44	14.1	13.5	689	723
45	14.3	13.6	633	652
46	14.0	11.2	854	698
47	14.3	12.3	745	524
48	12.3	15.0	659	666
49	16.1	17.4	721	834
50	15.0	18.4	976	762
51	14.2	16.0	737	992
52	18.2	16.9	842	774

Continued

9900307

Sample	Head length (cm)		Head wt. (g)	
#	Grand Max	Tres Equis	Grand Max	Tres Equis
53	16.0	15.5	812	890
54	15.2	17.0	910	1069
55	16.0	16.7	673	980
56	16.6	16.9	827	848
57	14.5	15.8	805	701
58	14.7	16.9	918	729
59	16.2	17.2	799	791
60	15.3	16.5	940	927
61	15.0	17.6	946	855
62	15.7	16.0	733	736
63	16.0	17.0	1016	1140
64	14.1	15.9	785	791
65	16.2	16.1	698	1344
66	15.2	14.2	826	980
67	15.7	15.2	812	1018
68	14.2	15.5	936	959
69	15.5	15.2	998	877
70	16.1	16.2	858	988
71	15.2	16.5	826	858
72	15.5	16.4	789	860
73	14.0	12.0	728	777
74	16.0	12.5	879	534
75	13.2	12.2	797	657
76	16.0	13.5	689	505
77	14.7	14.0	859	720
78	15.0	15.4	823	605
79	15.2	14.0	745	412
80	14.6	12.5	948	719
81	15.5	11.5	903	622
82	14.0	13.4	543	535
83	13.6	12.5	789	536
84	13.7	14.0	650	720
85	14.1	13.2	719	548
86	14.0	13.4	700	595
87	16.0	13.5	688	489
88	13.0	13.2	741	591
89	13.5	14.0	801	540
90	13.6	12.8	998	552
91	15.6	12.3	805	611
92	13.5	15.9	720	530
93	15.6	12.4	697	977
94	14.0	13.7	825	945
95	14.0	12.0	907	578
96	14.9	14.0	750	658
AVG	14.6	14.2	770.3	703.1
Std. Dev	1.11E+00	1.60E+00	1.13E+02	1.63E+02
T Test	1.81E-02		1.16E-03	
% Confidence Level	98.19142248		99.88422129	



9900307

Trialing Protocol for Intellectual Property Protection.

I. Set Up

1. Parental lines and competing varieties are identified.
2. Primary slots are identified.
3. Necessary accession lines are located and purchased/received from seed dealers or growers.
4. All varieties are assigned a number to maintain integrity, and anonymity.
5. Trials are set up in the Progeny warehouse with all necessary varieties. Variety arrangement for trial is diagramed.

II. Planting

1. Commercial plantings are located by contacting commercial growers during the planting slot recommended for the variety.
2. Field is located during commercial planting, and the necessary rows and area is marked off by a Progeny employee with proper training.
3. Varieties are planted according to diagram, in 100 ft. ranges, consisting of roughly 200 plants.
4. All varieties are planted in same manner, to mimic the planting of the commercial variety as closely as possible.
5. A trial map is drawn diagramming the trial, the trial location in the field, and directions to the field.

III. Maintenance

1. All varieties are treated identically. The grower handles all watering, fertilization, and pest control, as if it was no different from the commercial field it is grown with.
2. Thinning of the trial is done by a crew contracted by the commercial grower.



IV. Evaluation

1. Evaluations are done as near to the time of the commercial harvest as possible by knowledgeable Progeny employees.
2. The evaluation is conducted "blindly". The evaluator(s) do not have the key to the trial at the time of evaluation.
3. 24 heads of each variety are evaluated.
 - a. The frame diameter of 24 random plants are measured to the nearest cm.
 - b. 24 mature heads of each variety are cut to the cap leaf.
 - c. The heads are carried to an adequate work station
 - d. The following measurements are then conducted and recorded:
 1. Each head is weighed to the nearest gram.
 2. The core diameter of each head is measured to the nearest mm.
 3. The heads are then sliced in to halves, discarding 1 half.
 4. The core lengths (from the cut stem to the core tip) are measured to the nearest mm.
 5. The head length (from the cut stem to the cap leaf) is measured to the nearest mm.
 6. The head diameter (at its widest point) is measured to the nearest mm.
 7. The ideal maturity or harvest date is then estimated based on the solidity of the head, the core length and any other physiological characteristics present.
 8. The leaf color is documented using the Munsell Color Charts for Plant Tissue.
 - e. From these measurements, we then use an Excell program to calculate the averages, the standard deviations and the T-Tests for the compared varieties.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)

PROGENY ADVANCED GENETICS, INC.2. TEMPORARY DESIGNATION
OR EXPERIMENTAL NUMBER**PX 634 B**

3. VARIETY NAME

Orland Max**PX 634 B****RAD 4/16/01**

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)

**1536 B MOFFETT STREET
SALINAS, CALIFORNIA 93905**

5. TELEPHONE (include area code)

831-751-6030

6. FAX (include area code)

831-751-6032

7. PVPO NUMBER

9900307

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

 YES NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country

 YES NO

10. Is the applicant the original owner?

 YES

If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

 YES

If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

 YES

If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.